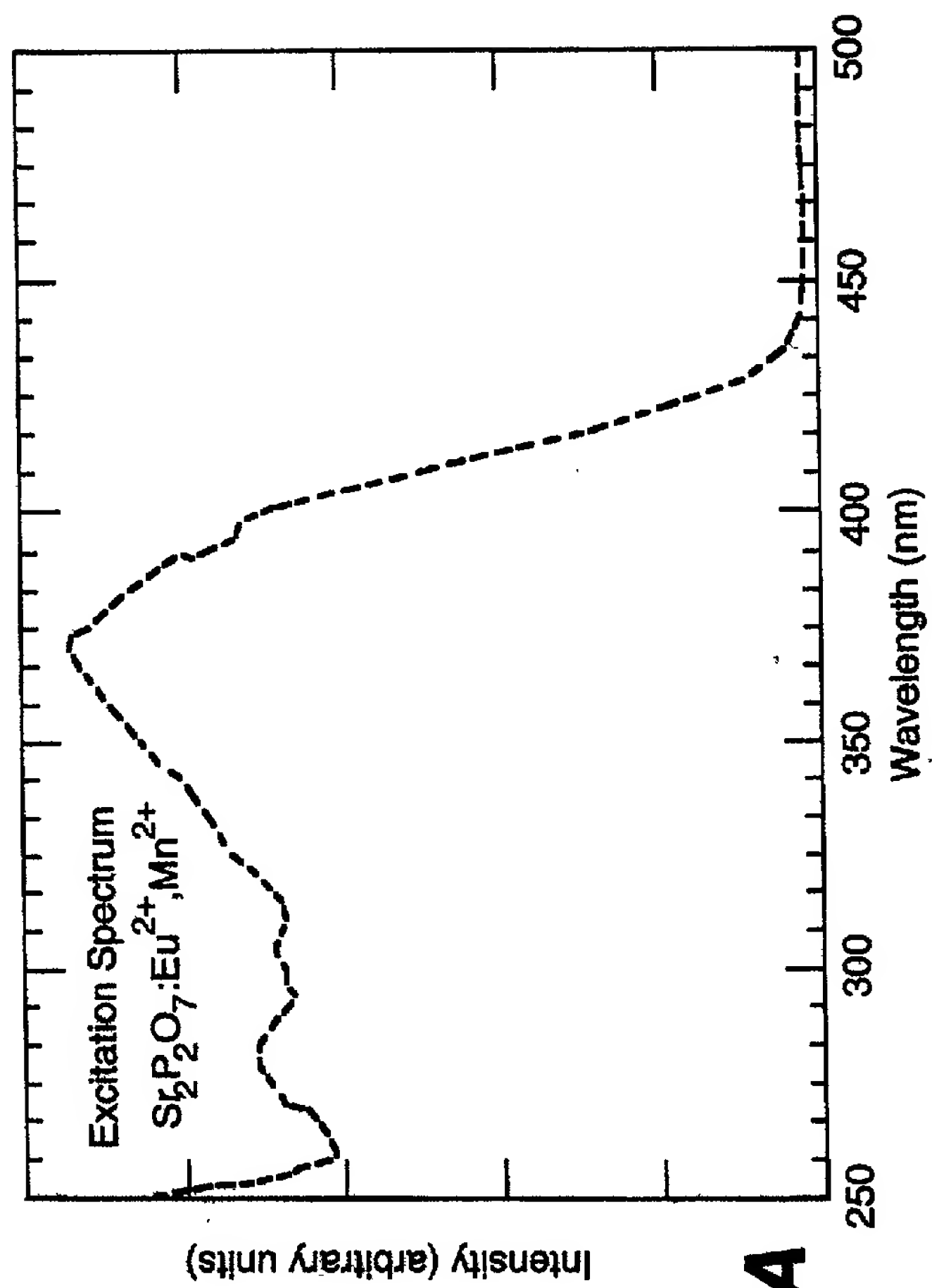
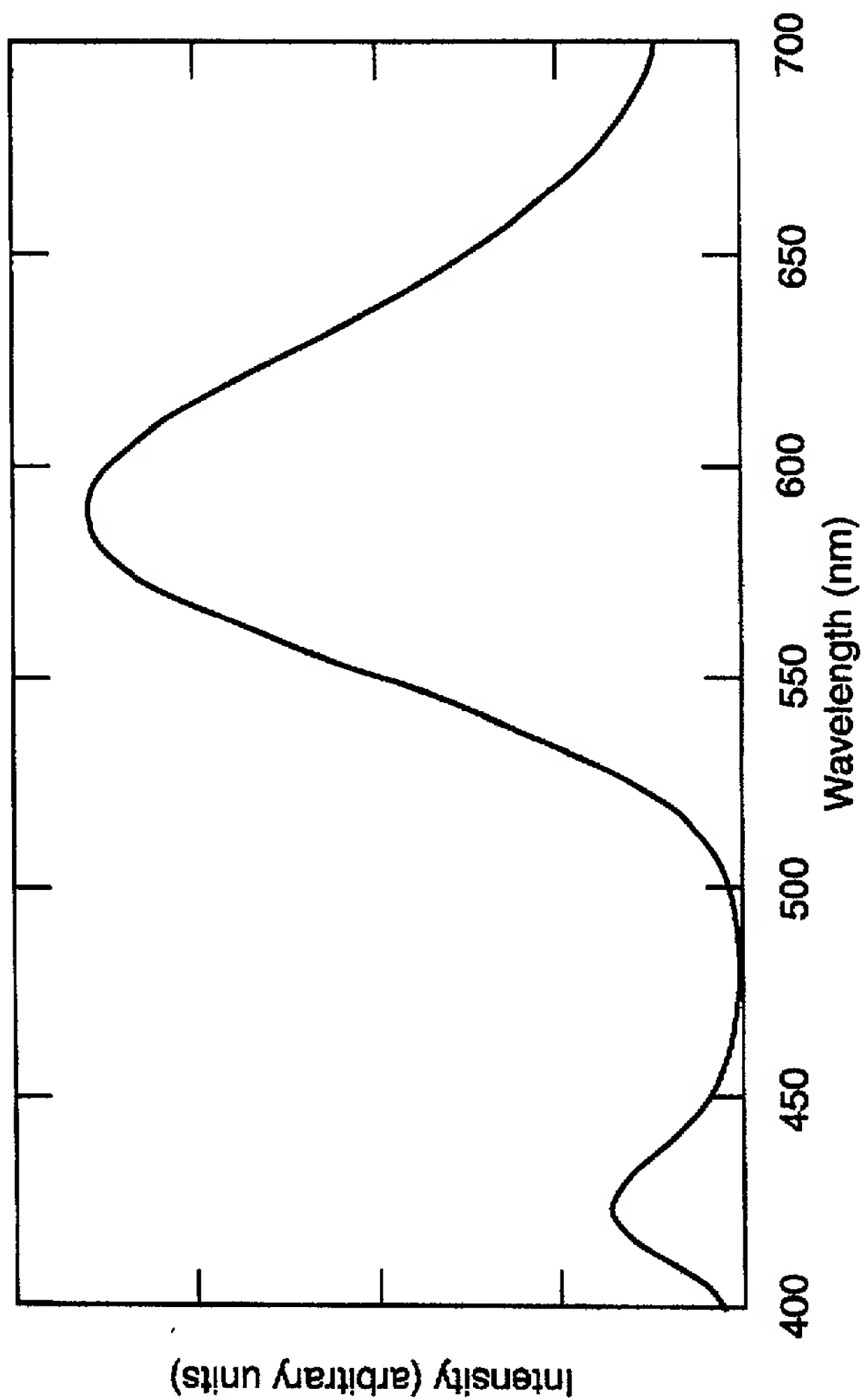


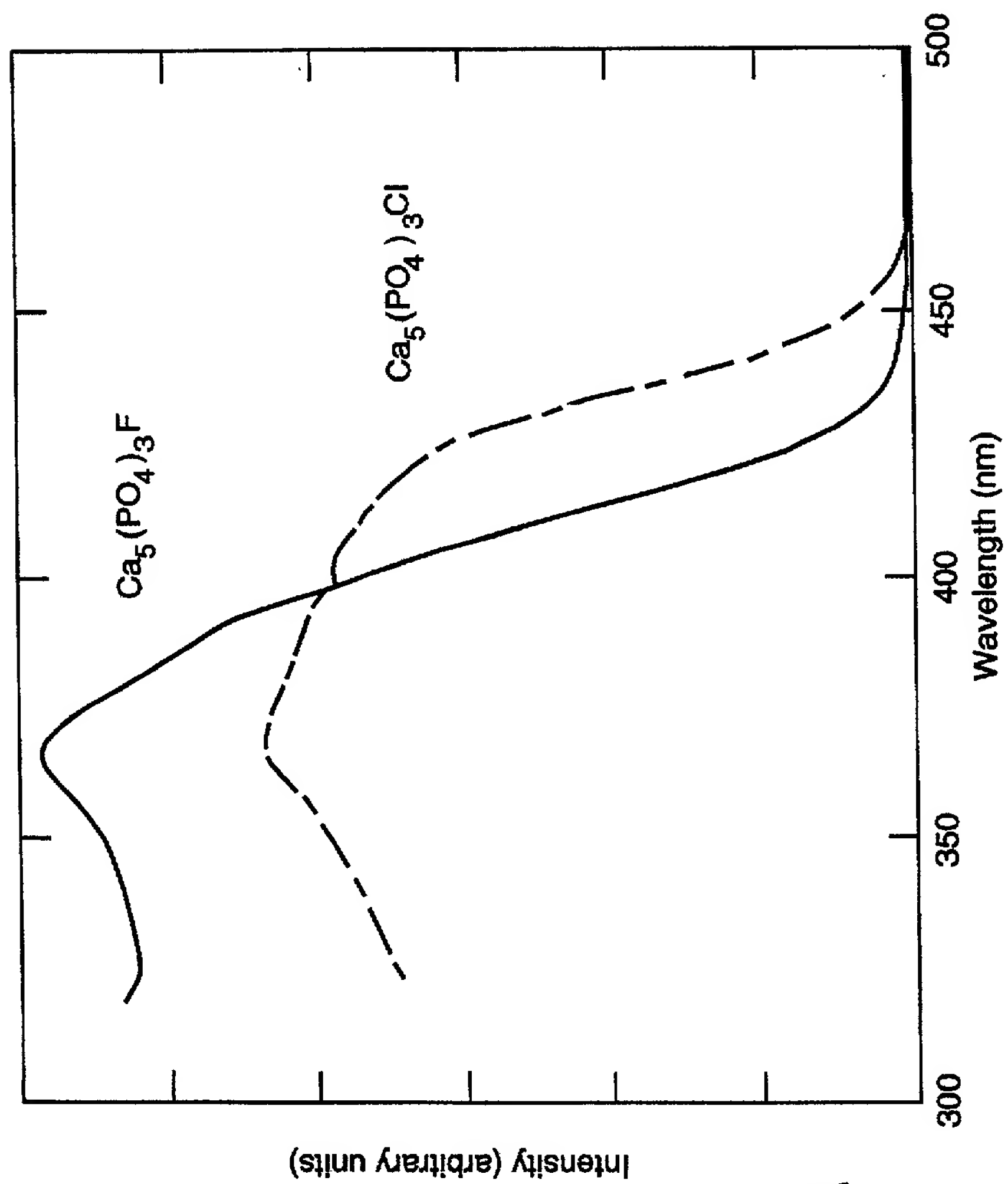
## Figures

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**FIG. 1A**

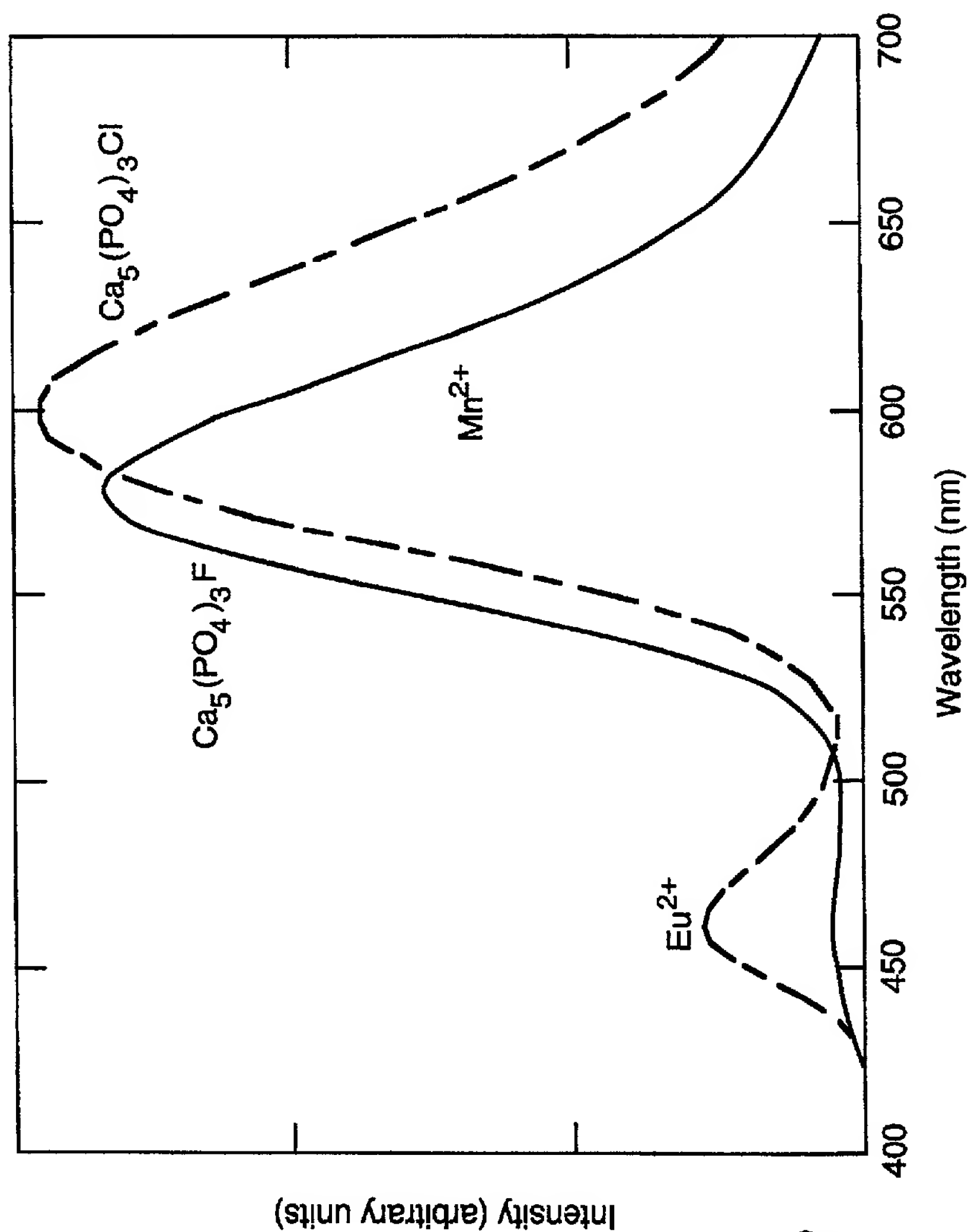


**FIG. 1B**

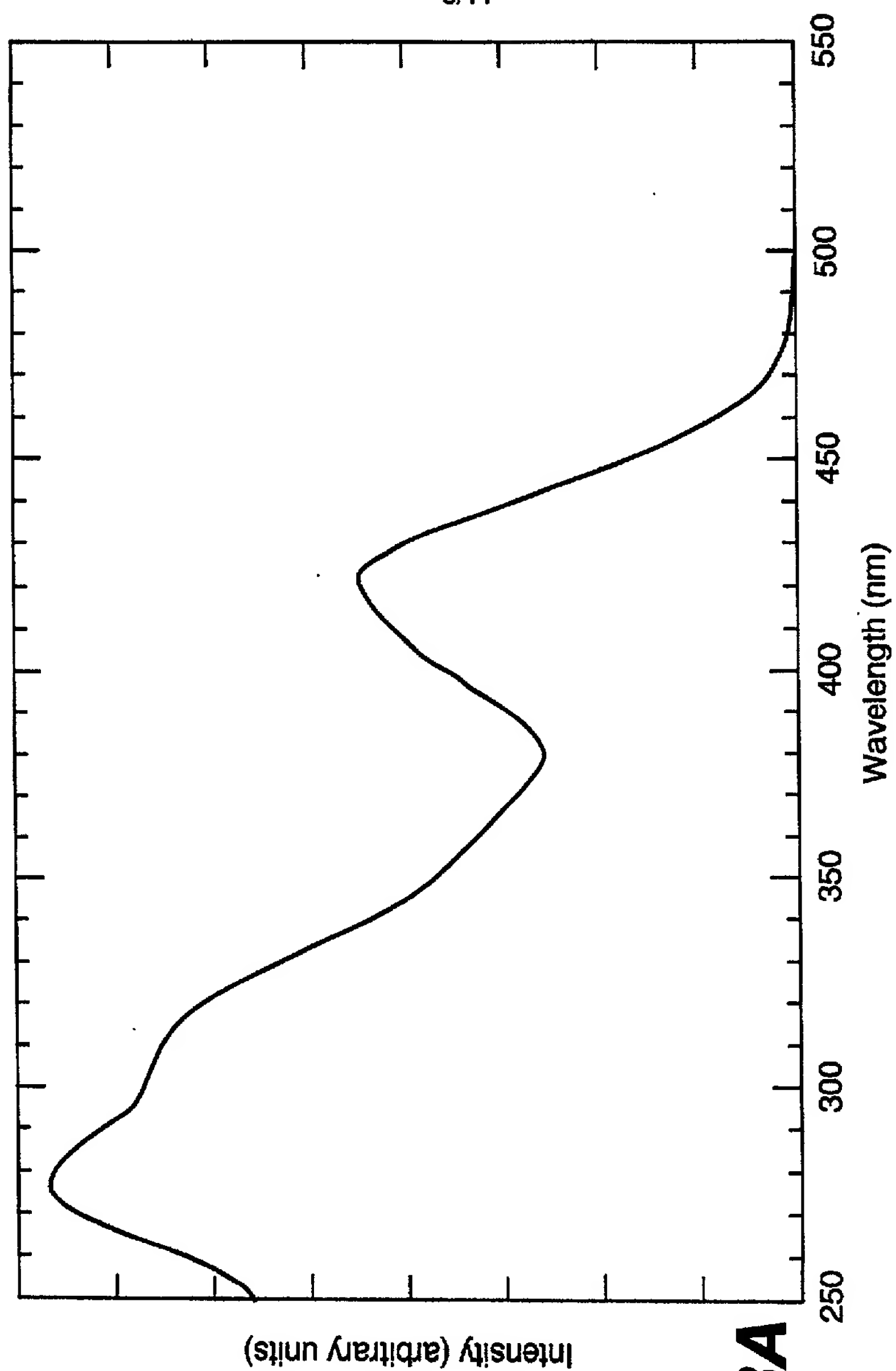


**FIG. 2A**

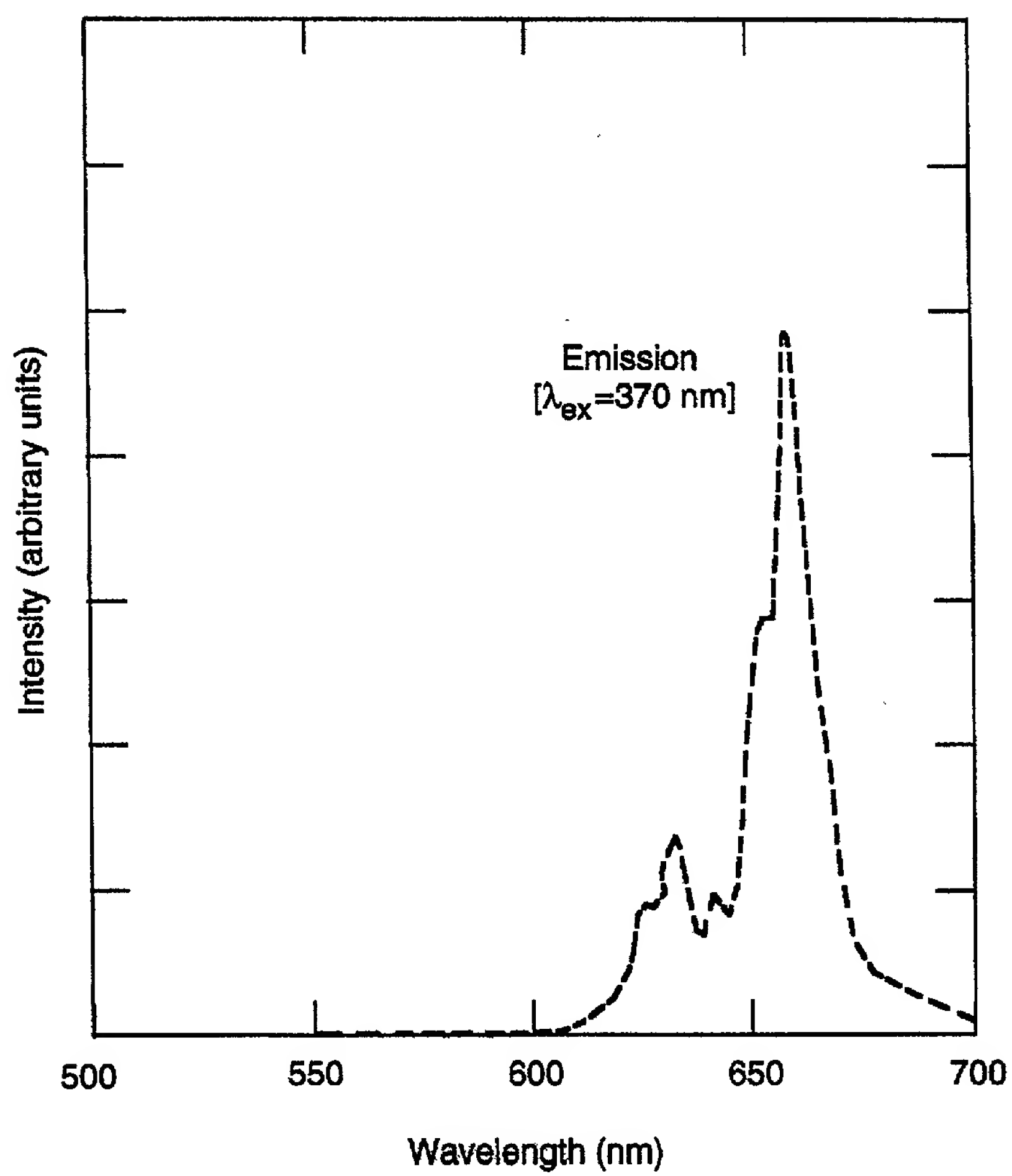
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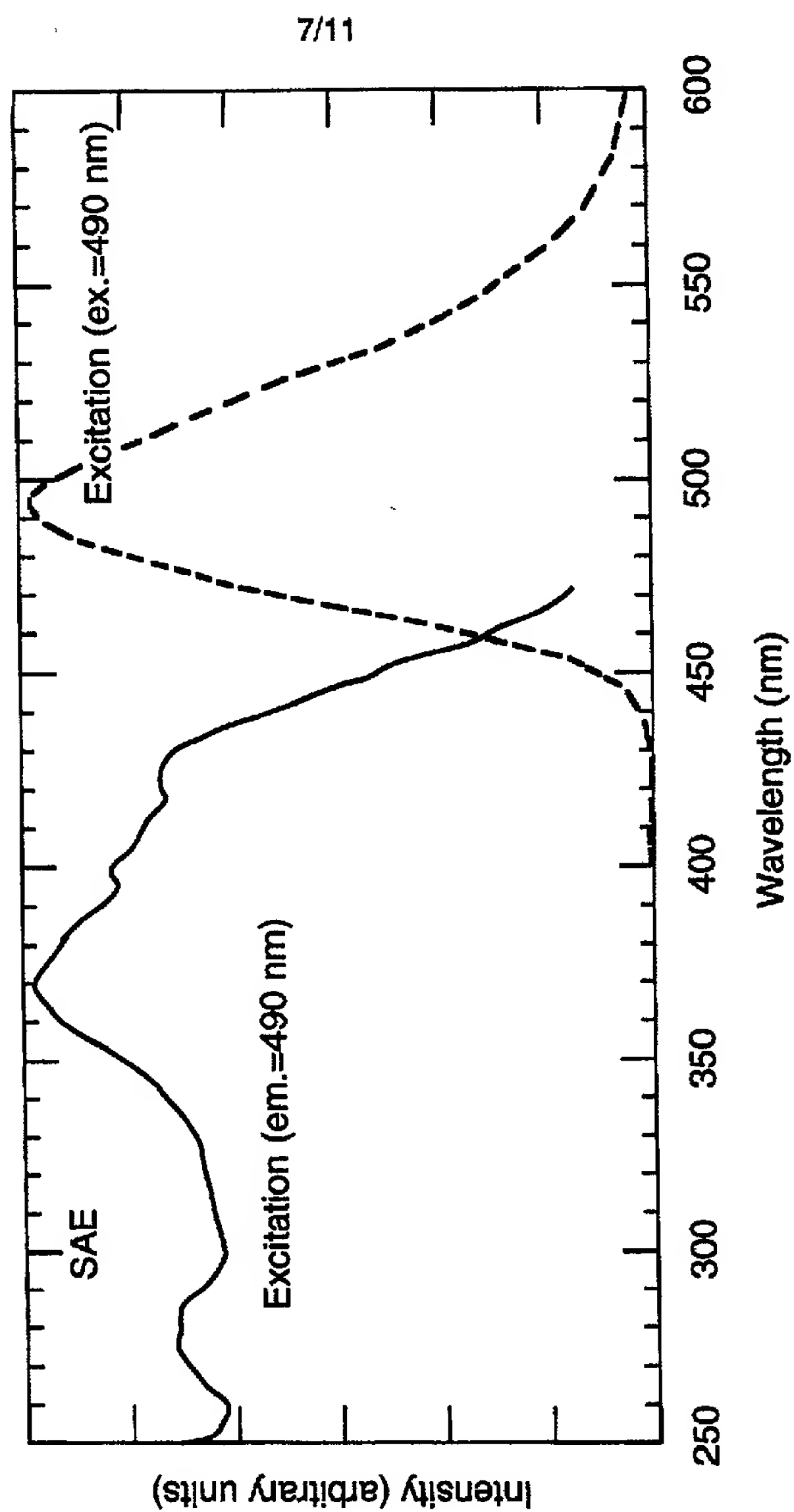


**FIG. 2B**



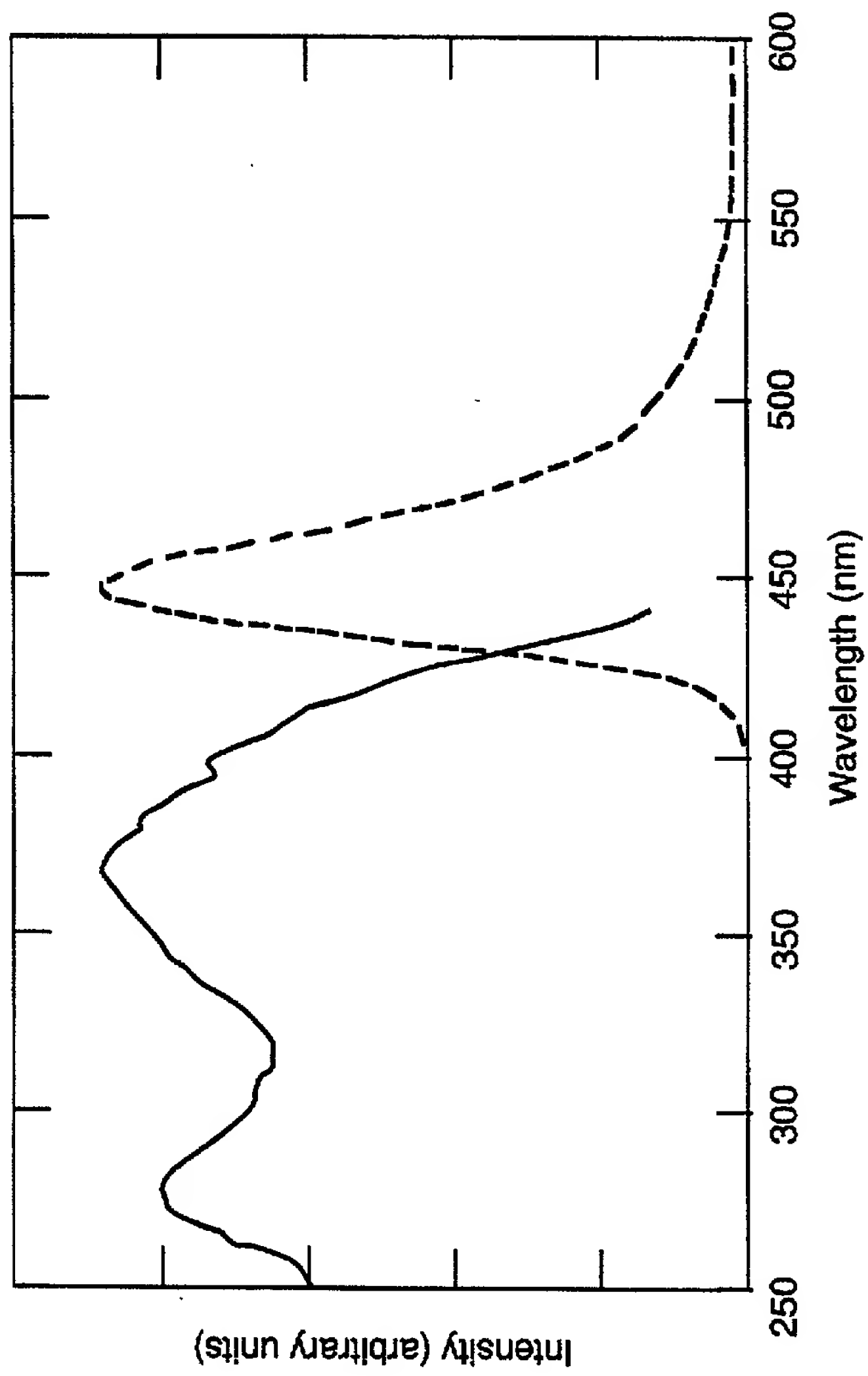
**FIG. 3A**

**FIG. 3B**



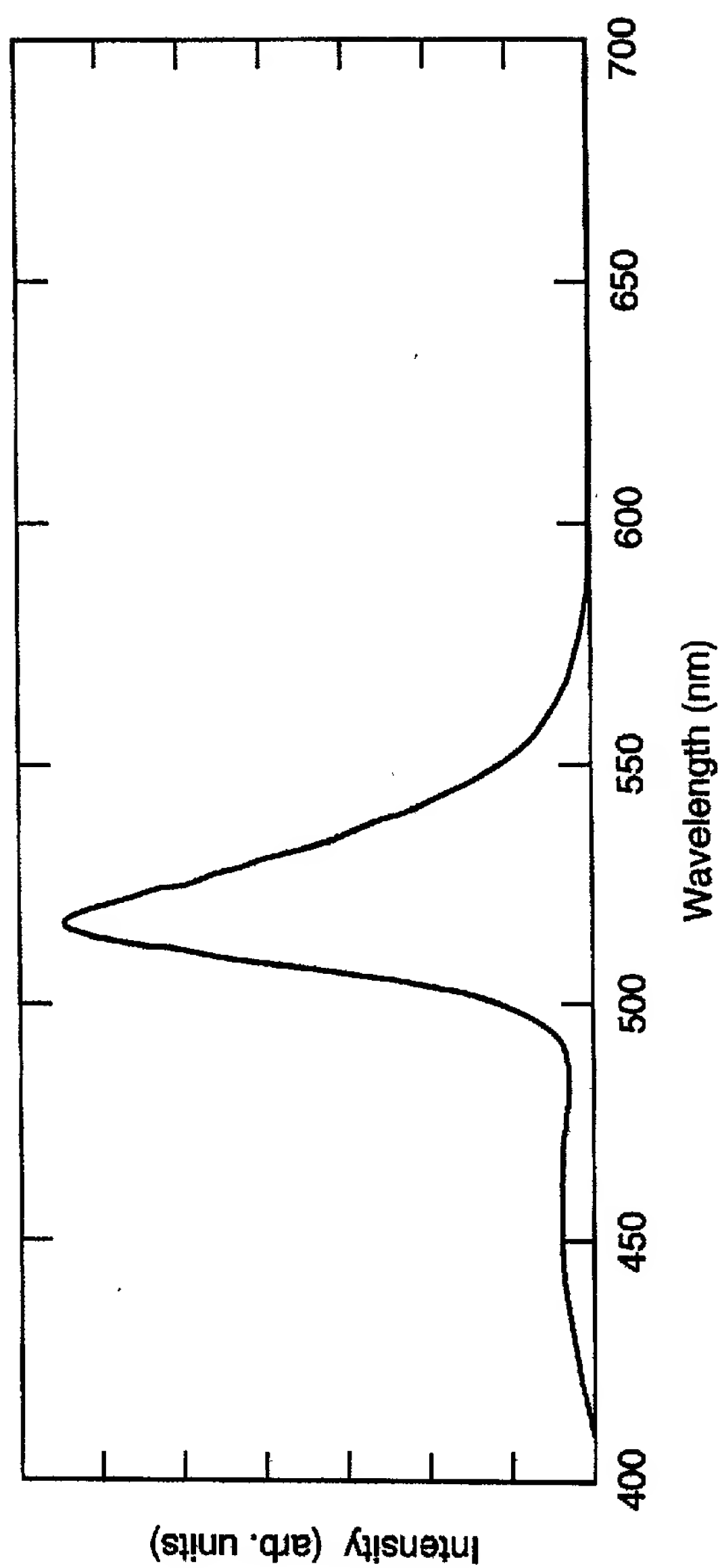
**FIG. 4**





**FIG. 5**

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**FIG. 6**

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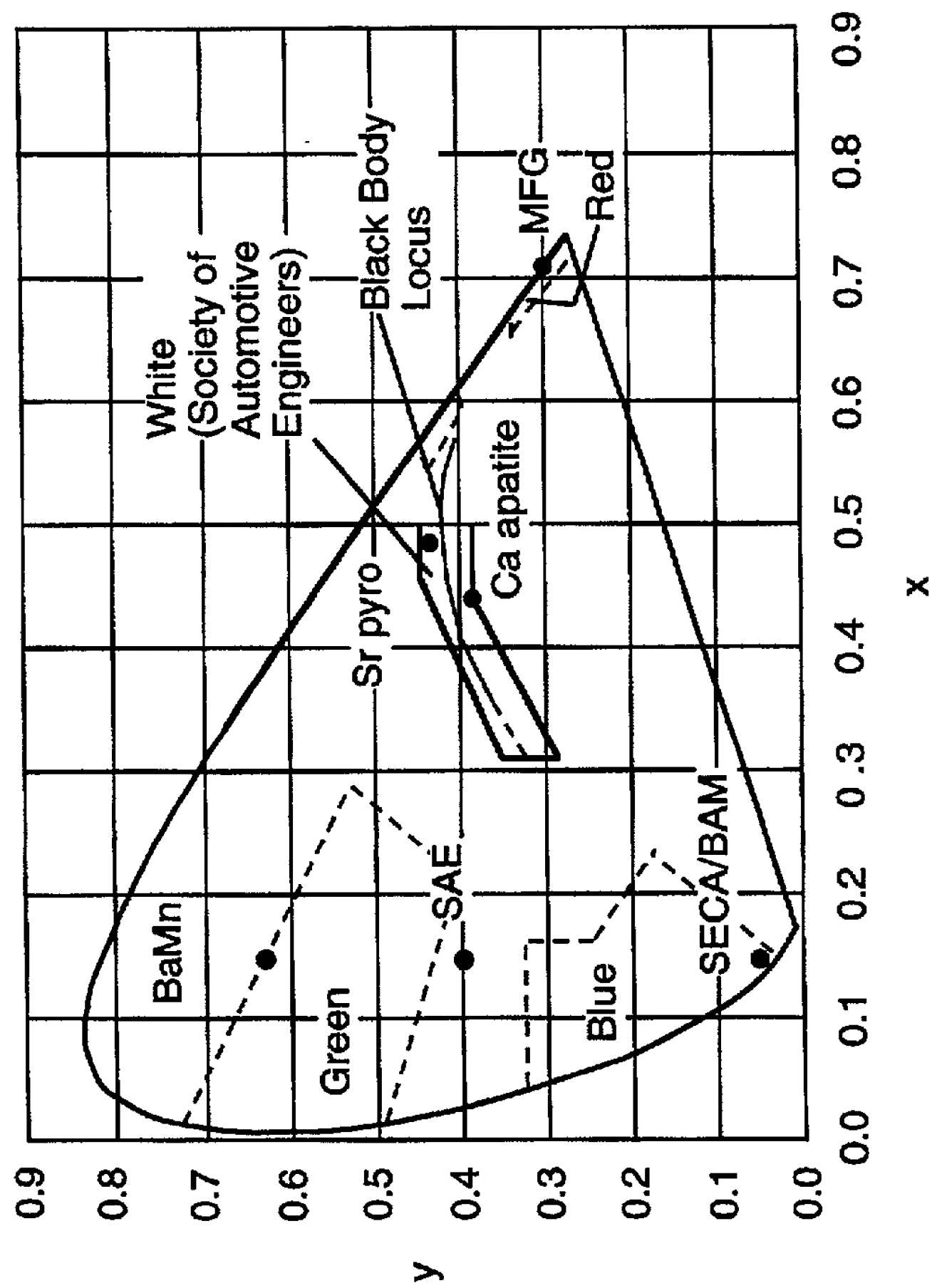
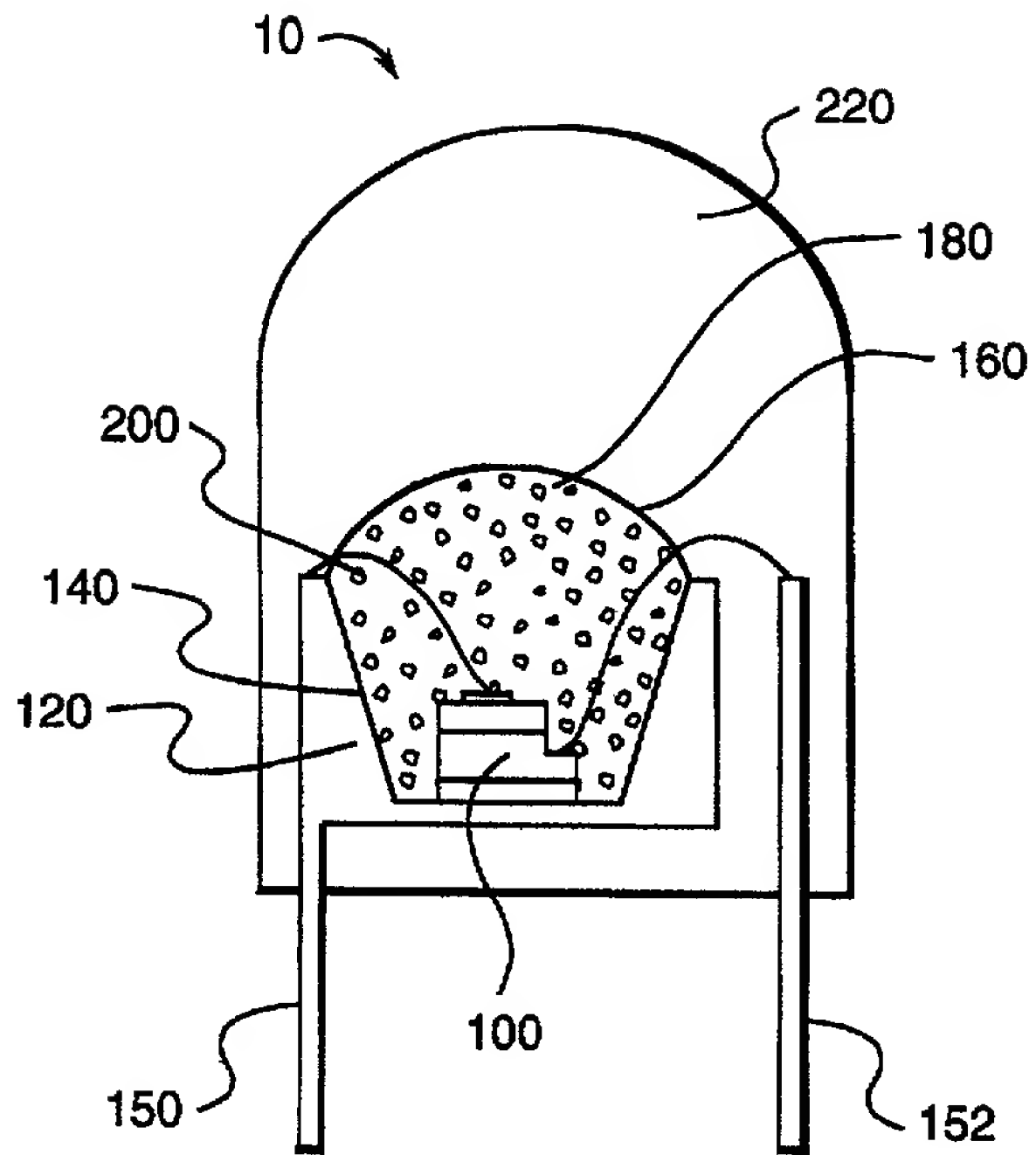


FIG. 7



**FIG. 8**

FIGURE 9

Table 1

Example	Sr pyro-phosphate	Ca(PO <sub>4</sub> ) <sub>3</sub> Cl:Eu <sup>2+</sup> ,Mn <sup>2+</sup>	SAE	MFG	BaMgAl <sub>16</sub> O <sub>27</sub> :Eu <sup>2+</sup> ,Mn <sup>2+</sup>	Si <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> Cl:Eu <sup>2+</sup> or Ba <sub>2</sub> MgAl <sub>16</sub> O <sub>27</sub> :Eu <sup>2+</sup>	CT (K)	CRI	Lumino-sity (L/W <sub>rad</sub> )	Distance from black body locus
1	0.724	0	0	0	0.185	0.091	4100	73	355.13	0.03
2	0.798	0	0.045	0.014	0.113	0.030	3500	70	360.83	0.03
3	0.778	0	0	0.023	0.106	0.093	3500	70	343.06	0.003
4	0.678	0	0.065	0.099	0.086	0.072	3500	80	321.28	0.003
5	0.658	0	0.056	0.047	0.123	0.116	4100	80	322.84	0.003
6	0	0.706	0	0.044	0.180	0.071	4100	80	343.37	0.003
7	0	0.759	0	0	0.070	0.171	4100	75	354.83	0.003
8	0	0.763	0	0.001	0.220	0.016	4100	75	373.80	0.03
9	0	0.787	0	0.056	0.156	0	3500	75	359.21	0.01
10	0	0.732	0	0.100	0.168	0	3500	80	348.26	0.011
11	0.632	0	0.095	0.133	0.075	0.0645	3500	85	310.79	0.002
12	0	0.676	0	0.140	0.162	0.022	3500	85	330.80	0.002
13	0.613	0	0.089	0.083	0.102	0.113	4100	85	312.04	0.002
14	0	0.654	0	0.086	0.186	0.074	4100	85	331.51	0.002
15	0.590	0	0.125	0.164	0.650	0.055	3500	90	301.47	0.002
16	0	0.628	0	0.178	0.170	0.0242	3500	90	320.47	0.002
17	0.570	0	0.122	0.117	0.090	0.101	4100	90	302.45	0.002
18	0	0.606	0	0.127	0.193	0.075	4100	90	320.98	0.002
19	0.530	0	0.15	0.150	0.080	0.090	4100	95	293.39	0.002
20	0	0.560	0	0.166	0.200	0.075	4100	95	310.84	0.002